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1633

M. W. 18457

PAGE: 1 TECHCENTER 1600/2900

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/164,714A

DATE: 04/20/2000
TIME: 12:08:31

Input Set: I164714A.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

ENTERED

1 <110> APPLICANT: Tucker, Kenneth D.
2 Tillmann, Ulrich F.
3 <120> TITLE OF INVENTION: MORAXELLA CATARRHALIS OMP21 POLYPEPTIDE, GENE SEQUENCE
4 AND USES THEREOF
5 <130> FILE REFERENCE: 7969-074
6 <140> CURRENT APPLICATION NUMBER: US/09/164,714A
7 <141> CURRENT FILING DATE: 1998-10-01
8 <160> NUMBER OF SEQ ID NOS: 21
9 <170> SOFTWARE: PatentIn Ver. 2.0
10 <210> SEQ ID NO 1
11 <211> LENGTH: 40
12 <212> TYPE: PRT
13 <213> ORGANISM: Moraxella catarrhalis
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16 1 5 10 15
17 Lys Ile Gly Gln Val Asp Ala Lys Gln Ile Asn Gly Lys Asn Thr Ala
18 20 25 30
19 Tyr Gly Ile Tyr Ala Gly Tyr Asn
20 35 40
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23 <212> TYPE: DNA
24 <213> ORGANISM: Artificial Sequence
25 <220> FEATURE:
26 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
27 <220> FEATURE:
28 <221> NAME/KEY: modified_base
29 <222> LOCATION: 6
30 <223> OTHER INFORMATION: n=a, c, g, or t
31 <220> FEATURE:
32 <221> NAME/KEY: modified_base
33 <222> LOCATION: 12
34 <223> OTHER INFORMATION: n=a, c, g, or t
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46 <223> OTHER INFORMATION: n=a, c, g, or t

47 <220> FEATURE:

48 <221> NAME/KEY: modified_base

49 <222> LOCATION: 12

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66 <223> OTHER INFORMATION: n=a, c, g, or t

67 <220> FEATURE:

68 <221> NAME/KEY: modified_base

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70 <223> OTHER INFORMATION: n=a, c, g, or t

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77 <220> FEATURE:

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93 <210> SEQ ID NO 6

94 <211> LENGTH: 543

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RAW SEQUENCE LISTING
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99 aacgctgcca tcagctatgg caattctgct gatgctcaac cctatgttgg tgccaaaatt 120
100 ggtcaagtag acgccaagca aatcaacggt aagaacaccg cttatgggtat ttatgcaggt 180
101 tataactttg accaaaattt tggcgtagaa cccgaatttg ttggttcaga cgccaaagaa 240
102 tttaatgcag gcgtgagtcc tgtaaaaggt gatgtgaagt cttttgggtgc ttatggcaca 300
103 tatcgctata acttcatcaa taccctatct tatgccaagg gcaaataggg cattgctaag 360
104 actaaagtag atgttaccag ccgtaatgca actacatact caaacaataag cgacaaaacc 420
105 agcctagcag gcggtgttgg tgttggcttt aaaccattag caaatgtggg cgttgaagca 480
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107 taa 543

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114 1 5 10 15
115 Ala Met Ser Ala Asn Ala Ala Ile Ser Tyr Gly Asn Ser Ala Asp Ala
116 20 25 30
117 Gln Pro Tyr Val Gly Ala Lys Ile Gly Gln Val Asp Ala Lys Gln Ile
118 35 40 45
119 Asn Gly Lys Asn Thr Ala Tyr Gly Ile Tyr Ala Gly Tyr Asn Phe Asp
120 50 55 60
121 Gln Asn Phe Gly Val Glu Ala Glu Phe Val Gly Ser Asp Ala Lys Glu
122 65 70 75 80
123 Phe Asn Ala Gly Val Ser Pro Val Lys Gly Asp Val Lys Ser Phe Gly
124 85 90 95
125 Ala Tyr Gly Thr Tyr Arg Tyr Asn Phe Ile Asn Thr Pro Phe Tyr Ala
126 100 105 110
127 Lys Gly Lys Leu Gly Ile Ala Lys Thr Lys Val Asp Val Thr Ser Arg
128 115 120 125
129 Asn Ala Thr Thr Tyr Ser Asn Lys Ser Asp Lys Thr Ser Leu Ala Gly
130 130 135 140
131 Gly Val Gly Val Gly Phe Lys Pro Leu Ala Asn Val Gly Val Glu Ala
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133 Ser Tyr Asn Tyr Leu Ser Glu Asp Ala Asn Ala Ile Ser Leu Gly Ala
134 165 170 175
135 His Leu Ala Phe
136 180

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/164,714ADATE: 04/20/2000
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Input Set: I164714A.RAW

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147 <212> TYPE: DNA
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161 <210> SEQ ID NO 11
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164 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
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168 cttgaccaat tttggcacca acataggg 28
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170 <211> LENGTH: 18
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172 <213> ORGANISM: Artificial Sequence
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180 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
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188 <213> ORGANISM: Artificial Sequence
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191 <400> SEQUENCE: 14
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193 <210> SEQ ID NO 15
194 <211> LENGTH: 45

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/164,714ADATE: 04/20/2000
TIME: 12:08:31

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195 <212> TYPE: DNA
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Line ? Error/Warning

Original Text

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gaygcncarc cntaygt

52 W "N" or "Xaa" used: Feature required

tgyttngcrt cnacytg

72 W "N" or "Xaa" used: Feature required

gcngaygcnc arc cntaygt

92 W "N" or "Xaa" used: Feature required

atncrcrtang cngtrtattytt